

# Volume 35, THE SCIENCE TEACHER

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- Concept-Oriented Transparencies.** John W. Brennan. January: 62. (Classroom Ideas). **Convention 1968.** Leo Schubert. March: 12. (Editorial). **Criteria for a Planetarium Presentation.** George Pitluga. December: 51. **Cyrogenics: Classical and Modern Aspects of Low Temperature Physics.** Mark W. Zemansky. October: 65. (Science Seminar). **Curricular Decisions—How Can Evaluation Assist Science Teachers?** Wayne W. Welch. November: 22. **Curriculum:** *Bases of Science Curriculum Development in the Future.* Wilber S. Slawson. March: 22. **The Science Curriculum Viewed Nationally.** Claude Gatewood. November: 18. **The Systems Approach, A New Educational Technique.** Edward H. Decker. November: 26. **Curriculum in Science.** Norman D. Anderson. November: 17. **Defining the Processes of Science: A Statement by Educators in India.** Walter R. Brown. December: 26. **Desert Classroom, The.** Mary E. Harris. October: 59. (With the Schools). **Determining Duration of Stages of Mitosis.** Ronald F. Romig. February: 51. (Classroom Ideas). **Determining Ionic Equilibria.** Richard W. Rose and Grover C. Willis. April: 28. **Difference Is in the Kind of Energy, The.** Laurence E. Strong. May: 57. (TST Forum). **Disadvantaged Students:** *A Success-Oriented Program for the Educationally Deprived.* N. Eldred Bingham and C. Hines Cronin. November: 38. **Summer Science: City Programs for the Disadvantaged.** NSTA Staff Report. October: 25. **Discovering Organic Chemistry.** Harrie E. Caldwell. November: 63. (Classroom Ideas). **Dual Responsibilities of a Professional Society, The.** Arnold B. Grobman. November: 16. (Editorial). **Ecology of Sand Dunes, The.** William H. Amos. February: 15. **Editorials:** *A Membership Fairy Tale.* Doris M. Timpano. February: 14. **Convention.** Leo Schubert. March: 12. **Issues in Science Education.** Arnold B. Grobman. January: 18. **Our Happening.** Philip G. Johnson. September: 12. **Our NEA Relationship.** Elizabeth A. Simendinger. October: 19. **The Dual Responsibilities of a Professional Society.** Arnold B. Grobman. November: 16. **The Voice of NSTA.** Morris H. Shamos. May: 12. **Energy Conversion in Biological Systems.** Walter Bertsch. September: 60. (Science Seminar). **Energy, Improving Concepts of.** Laurence E. Strong and Jay A. Young. December: 8. (TST Forum). **Energy, The Difference Is in the Kind of.** Laurence E. Strong. May: 57. (TST Forum). **Engineering Concepts, Building a High School Course on.** Donald L. Wise. April: 41. (With the Schools). **Environmental Learning—An Experimental Summer Program.** Jay E. Anderson and Norman Jacobson. April: 37. (With the Schools). **Environmental Pollution Experiments.** Elbert C. Weaver. April: 24. **Equipment for Circular Chromatography.** Robert C. Olsen and Burton L. Nessel. September: 73. (Classroom Ideas). **ESP Without Cards.** R. A. McConnell. September: 29. **Evolution, The Origin and Maintenance of Genetic Variation in the Process of.** John W. Crenshaw. November: 79. (Science Seminar). **Excursion into Junior High Science Teaching, An.** Russell C. Oakes. October: 21. **Experimental Earth Science for Eighth Grade: A Cooperative College-School Science Program.** Jon L. Higgins and Robert E. Boyer. January: 51. (With the Schools). **Extraction and Identification of Tissue Lipids by Chromatography.** Weldon L. Witters. May: 53. (Classroom Ideas). **First year science teachers: The Concept of FYST.** Marvin Druger. September: 65. (STAR). **Found: The Missing Physics Students.** Buell C. Robinson and Thomas E. Keefe. January: 67. (Classroom Ideas). **Geology and Man.** John W. Shrum. December: 12. (Science Seminar). **Geology Field Trip . . . by Air.** Gerald L. Abegg. February: 27. **Get to the "Point" . . . for a Really Big Blowup.** Alton S. Yarian. November: 31. (STAR). **Good Year for Aurora, A.** Michael Gadsden and Joann T. Temple. December: 24. **Grasshoppers: Summer Companions: The Grasshoppers.** Millard C. Davis. May: 44. **Grassland Study Launched in the International Biological Program.** U.S. National Committee for the IBP. December: 21. **Guidelines for Content of Preservice Professional Education for Secondary School Science Teachers.** Association for the Education of Teachers in Science and Cooperative Committee on the Teaching of Science and Mathematics. May: 85. **Half-Life Analog Using Sugar Cubes.** Raymond A. Castillo and Roger W. Ward. October: 83. (Classroom Ideas). **Headlines of the Future.** Stanley Simmons and Robert Link. April 15. **Hearing Is Believing . . . Or Is It?** Byron E. Jordan. October: 80. (Classroom Ideas). **High Altitude and Man.** NSTA Staff Report. March: 28. **How Does Your Model Grow?** Stewart P. Darrow. January: 19. **Human Intelligence: The Culture-Related View.** E. Paul Torrance. September 21. **Human Intelligence: The Physiological View.** Lewis Jacobs. September: 13. **Human Intelligence: The Psychological View.** William L. Simmons. September: 18. **Human Rights: YOU and UNESCO.** John S. Richardson. December: 54. **Image in a Plane Mirror.** Gilbert Billings. November: 63. (Classroom Ideas). **Improving Concepts of Energy.** Laurence E. Strong and Jay A. Young. December: 8. (TST Forum). **Independent Study Science Program at Marple Newtown High School, The.** James V. DeRose. May: 48. (STAR). **Integrated Science Education for Nonsense Students in a Large University.** Isidore Hudes and George Moriber. February: 39. (With the Schools). **Integrated Teaching of the Sciences, Toward An.** Kevin W. Keohane. October: 39. (Science Seminar). **International Biological Program, Grassland Study Launched in the.** U.S. National Committee for the IBP. December: 21. **International Education:** *A Soviet Experiment in Science Education.* William D. Romey. 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Higgins and Robert E. Boyer. January: 51. (With the Schools). **Objectives for Student Performance in Junior High School Science: A Viewpoint.** Harold R. Hungerford. January: 25. **The Who for What in Junior High School Science Education.** D. G. Singletary. April: 53. (TST Forum). **Junior High Science Teaching, An Excursion into.** Russell C. Oakes. October: 21. **Kansas Students Explore Southeastern Ecology.** Stanley and Janet Roth. February: 23. **Learning and Evaluating in New Science Courses.** Gerald T. Kowitz. January: 30. **Learning by Living—in the Grand Canyon by Field Trip.** Lorenzo Lisonbee. February: 20.

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- Membership Fairy Tale, A.* Doris M. Timpano. February: 14. (Editorial).
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- Mitosis Swing, The.* Robert L. Sampson and Joseph Gillespie. February: 48. (Classroom Ideas).
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- New Device for Determining Molecular Weight of a Gas.* Howard Nechamkin. April: 47. (Classroom Ideas).
- Nonsense of Education, The.* D. G. Ivey. March: 18.
- Non-Scientist Speaks on Science for a Liberal Education, The.* John Baker, Foy D. Kohler, and C. Albert Koob. April: 15.
- NSTA Conferences on Scientific Literacy, The.* Albert F. Eiss. May: 30.
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- NSTA Silver Year Review, The: Early Days and Philosophy.* Robert Stollberg, Guest Editor. October: 51.
- Facilities, Materials, Resources, and Their Effects.* Morris R. Lerner, Guest Editor. October: 56.
- NSTA As Spokesman for the Science Teacher.* Elizabeth A. Quinn, Guest Editor. December: 45.
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- Origin and Maintenance of Genetic Variation in the Process of Evolution, The.* John W. Crenshaw. November: 79. (Science Seminar).
- Our Happening.* Philip G. Johnson. September: 12. (Editorial).
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- Out of the Classroom:*
- Geology Field Trip . . . by Air.* Gerald L. Abegg. February: 27.
  - Kansas Students Explore Southeastern Ecology.* Stanley and Janet Roth. February: 23.
  - Learning by Living—in the Grand Canyon by Field Trip.* Lorenzo Lisonbee. February: 20.
- Why the Florida Science Study Program.* Doris M. Timpano. February: 25.
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- Planetarium Presentation, Criteria for a.* George Pitluga. December: 51.
- Polarized Light Microscope Improvised.* Peretz Mahler. April: 45. (Classroom Ideas).
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- Processes of Science, Defining the: A Statement by Educators in India.* Walter R. Brown. December: 26.
- Problematical Migration of Birds, The.* Richard R. Gruber. April: 16.
- Productivity Interaction, Basis for Science Education in the 21st Century.* Donald W. Stotler. February: 13.
- Projecting Reactions Involving Colors.* C. H. Breedlove, Jr. December: 65. (Classroom Ideas).
- Projection Device: Get to the "Point" . . . for a Really Big Blowup.* Alton S. Yarian. November: 31. (STAR).
- Properties of Simple Liquids.* Stuart A. Rice. May: 17. (Science Seminar).
- Psychological Controversies in the Teaching of Science and Mathematics.* Lee S. Shulman. September: 34.
- Purpose of Knowledge is Action and Social Betterment, The.* Hubert H. Humphrey. May: 23.
- Qui Docet Discit—He Who Teaches, Learns.* Flores Le Boeuf. January: 53. (With the Schools).
- Reply to Atkin on Behavioral Objectives.* Charles A. Koepke, III. November: 12. (TST Forum).
- Reply to a Student's Inquiry.* Kenneth J. Molchen. October: 87. (TST Forum).
- Research, The Art We Call.* Oakley S. Ray. September: 39.
- Rural Education: PACE in Appalachia.* Jim Cost. April: 39. (With the Schools).
- Science and Humanities Conferences, An Argument for.* Leonard M. Krause. December: 33.
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- Science Curriculum Viewed Nationally, The.* Claude Gatewood. November: 18.
- Science Fairs, Not Contests.* Edwin L. Shay. April: 55. (TST Forum).
- Science in the New Humanism.* J. Bronowski. May: 13.
- Science-Technology: An Introduction to Technology for High School Students.* Stephen Hopkins. May: 39. (With the Schools).
- Simple Day-Night Reversal Cage for the Classroom, A.* P. W. Ogilvie. March: 53. (Classroom Ideas).
- Simple Method for Filling a Dumas Bulb, A.* Edward J. Parrish. February: 55. (Classroom Ideas).

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- Slow Learners: A Computer Model for the Slow Student.* Paul Geisert. March: 13.
- Soviet Experiment in Science Education, A.* William D. Romey. January: 43.
- Space Photography Yields Information on Himalayan Geology.* Maynard M. Miller. February: 28.
- STANYS Outlines Good Working Conditions.* October: 63.
- Statistics: Chance, Uncertainty, and Truth in Science.* W. J. Youden. November: 72. (Science Seminar).
- Success-Oriented Program for the Educationally Deprived, A.* N. Eldred Bingham and C. Hines Cronin. November: 38.
- Summer Companions: The Grasshoppers.* Millard C. Davis. May: 44.
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- Systems Approach, The, A New Educational Technique.* Edward H. Decker. November: 26.
- Tape Recorders Aid Individualized Instruction in Chemistry.* J. Thomas Head and Olaf Runquist. February: 53. (Classroom Ideas).
- Teacher Education:**
- Guidelines for Content of Preservice Professional Education for Secondary School Science Teachers.* Association for the Education of Teachers in Science and Cooperative Committee on the Teaching of Science and Mathematics. May: 85.
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- Toward an Integrated Teaching of the Sciences.* Kevin W. Keohane. October: 39. (Science Seminar).
- UNESCO Division of Science Teaching, The.* John S. Richardson. May: 51.
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- Using the Cubic Meter as a Teaching Model.* Donald M. Tignor. March: 56. (Classroom Ideas).
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- Who for What in Junior High School Science Education, The.* D. G. Singletary. April: 53. (TST Forum).
- Why the Florida Science Study Program?* Doris M. Timpano. February: 25. (Out of the Classroom).
- With Bernoulli and Torricelli.* John Heck. January: 64. (Classroom Ideas).
- YOU and UNESCO.* John S. Richardson. December: 54.
- Youth Speaks on Education: Aim for Education for the Future.* Fred Greensite. November: 29.
- Youth Speaks on Education: Today's Educational System.* Elin Kristin Hansen. November: 28.
- ### NSTA Activities
- ACS-NSTA 1968 Test Prepared.* February: 4.
- Affiliation Time for FSA Clubs.* October: 7.
- American Gas Association To Co-Sponsor STAR Awards.* December: 5.
- Announcing the NSTA Capital Fund Campaign for a New Headquarters Building.* October: 5; December: 5.
- Annual Meeting of NSTA Board of Directors, 1968.* October: 4.
- An Open Letter to All U.S. Senators and Congressmen From Robert H. Carleton.* May: 64.
- Bibliographies in Education and Occupational Information.* February: 8.
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- Call for Nominations for NAIEC Award.* November: 5.
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- Cornell Science Leaflets.* February: 8.
- Drug Abuse Education at Preconvention Meeting.* December 5.
- Election, 1968.* February: 4.
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- Gift Memberships.* February: 4.
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- Japan—U.S. Film Exchange.* September: 94.
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- New NSTA Bibliographies of Textbooks and Courses of Study.* April: 5.
- New Section Officers.* September: 5.
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- 1967 Regionals Break Records.* February: 6.
- NSTA, AAHPER Begin Drug Abuse Education Project.* October: 6.
- NSTA Activities at the AAAS Meeting.* November: 4.
- NSTA Cancels Attendance at Varna Conference.* November: 4.
- NSTA Citations for Distinguished Service.* May: 26.
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- NSTA Conferences on Scientific Literacy, The.* Albert F. Eiss. May: 30.
- NSTA Convention in Pictures.* May: 24.
- NSTA Enters Case Before Supreme Court.* September: 6.
- NSTA Inaugurates Newsletter.* October: 5.
- NSTA Meets in Washington.* May: 20.
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- Project Abstracts of FSA Awards Published.* October: 5.
- Redistricting Plan Approved by Members.* December: 5.
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- Research Analyses to be Published in TST.* September: 92.
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- Saturday Seminars Gain in Popularity.* September: 93.
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